

Express Mail No.: EK602286735US

**NEW UTILITY PATENT APPLICATION  
TRANSMITTAL**

DOCKET NO.  
END920000087US1  
(IEN-10-5540)

TOTAL PAGES IN THIS SUBMISSION  
3

**TO THE ASSISTANT COMMISSIONER FOR PATENTS**

**Box Patent Application  
Washington, D.C. 20231**

Transmitted herewith for filing under 35 USC 111(a) and 37 CFR 1.53(b) is a new utility patent application for an invention entitled:

**MULTI-LAYERED HIGH DENSITY CONNECTIONS**

invented by:

RICHARD RONALD HALL  
CHRISTOPHER JOHN MAJKA  
MATTHEW FRANCIS SEWARD

HOW TZU LIN  
NORMAN COREY SEASTRAND  
RONALD VERNE SMITH

assigned to

INTERNATIONAL BUSINESS MACHINES CORPORATION  
Armonk, New York

**If a CONTINUATION APPLICATION, check appropriate box and supply the requisite information:**

☐ Continuation

☐ Divisional

☐ Continuation -in -part (CIP)

in prior application No.: \_\_\_\_\_

Enclosed are:

**Application Elements**

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having **18** pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☐ Cross References to Related Applications (*if applicable*)
  - c. ☐ Statement Regarding Federally-sponsored Research/Development (*if applicable*)
  - d. ☐ Reference to Microfiche Appendix (*if applicable*)
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings (*if drawings filed*)
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure
3. ☒ Drawing(s) (*when necessary as prescribed by 35 USC 113*)
  - a. ☒ Formal
  - b. ☐ InformalNumber of Sheets **4**

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Application Elements (Continued)

4. ☒ Oath or Declaration
- a. ☒ Newly executed (*original or copy*) ☐ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) (*for continuation/divisional application only*)
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
5. ☐ Incorporation by Reference (*usable if Box 4b is checked*)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ Computer Program in Microfiche (*Appendix*)
7. ☐ Nucleotide and/or Amino Acid Sequence Submission (*if applicable, all must be included*)
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy (*identical to computer copy*)
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☒ Assignment Papers (*cover sheet & document(s)*)  
**International Business Machines Corporation, Armonk, New York**
9. ☐ 37 CFR 3.73(B) Statement (*when there is an assignee*)
10. ☐ English Translation Document (*if applicable*)
11. ☒ Information Disclosure Statement/PTO-1449 ☒ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Return Receipt Postcard
14. ☒ Certificate of Mailing  
☐ First Class ☒ Express Mail (*Specify Label No.*): EK602286735US
15. ☒ Application Data Sheet
16. ☐ Additional Enclosures (*please identify below*):

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## FEE CALCULATION AND TRANSMITTAL

### CLAIMS AS FILED

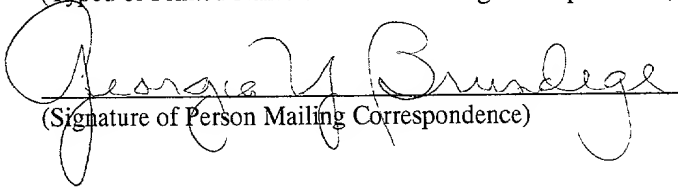
1) For	2) Number Filed	3) Number Extra	Rate	Additional Fee
TOTAL CLAIMS (37 CFR 1.16(c))	26-20 =	- 6 -	x\$18.00	\$ 108.00
INDEPENDENT CLAIMS (37 CFR 1.16(c))	5 - 3 =	- 2 -	x \$80.00	\$ 160.00
First Pres. Of Multiple Dep. Claims	= 0			\$ 0.00
Basic Fee	= 0			\$ 710.00
			TOTAL	\$ 978.00

- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 09-0457 as described below. A duplicate copy of this sheet is enclosed.
- ☒ Charge the amount of \$978.00 as filing fee.
- ☒ Credit any overpayment or any deficiency.
- ☒ Charge any additional filing fees required under 37 CFR 1.16 and 1.17.

Respectfully submitted,

Date: March 15, 2001

By: Lawrence R. Fraley  
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IBM Corporation  
IP Law Dept N50/040-4  
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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) Applicant(s): Hall et al			DOCKET NO. END920000087US1 (IEN-10-5540)
Serial No. To be assigned	Filing Date Filed Herewith	Examiner	Group Art Unit
Invention: <b>MULTI-LAYERED HIGH DENSITY CONNECTIONS</b>			
<p>I hereby certify that the following documents</p> <p>    New Utility Patent Application Transmittal</p> <p>    Application Data Sheet</p> <p>    Patent Application comprising 12 pages of specification, 5 pages of claims,                1 page of Abstract and 4 sheet of drawings</p> <p>    Declaration and Power of Attorney for Patent Application</p> <p>    Assignment and Recordation Cover Sheet</p> <p>    IDS Submission Statement with 1449 Form and copies of all citations</p> <p>    Two (2) Acknowledgement post cards</p> <p>are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231 on</p> <p>    <u>3/16/01</u></p>			
<p style="text-align: center;"> <u>Georgia Y. Brundage</u>          (Typed or Printed Name of Person Mailing Correspondence)       </p> <p style="text-align: center;">           (Signature of Person Mailing Correspondence)       </p> <p style="text-align: center;"> <u>EK602286735US</u>          ("Express Mail" Mailing Label Number)       </p>			